

# SAFETY DATA SHEET

Issue Date 14-Jun-2016

Revision Date 19-Sep-2016

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# 1. IDENTIFICATION

Product identifier

**Product Name** 

Ammonia Electrode Filling Solution

Other means of identification

Product Code(s)

4447226

Safety data sheet number

M01182

Recommended use of the chemical and restrictions on use

Recommended Use

Reference electrode solution.

Uses advised against

None. None.

Restrictions on use

Details of the supplier of the safety data sheet

Manufacturer Address Hach Company

P.O.Box 389 Loveland, CO 80539 USA

(970) 669-3050

Emergency telephone number

(303) 623-5716 - 24 Hour Service (515)232-2533 - 8am - 4pm CST

Product Information

**Chemical Name** 

Not applicable

Formula

Not applicable

CAS No

Not applicable

Alternate CAS Number

Not applicable

NIOSH (RTECS) Number

None reported

### 2. HAZARDS IDENTIFICATION

# Classification

Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Not Hazardous** 

Not a dangerous substance or mixture according to the Globally Harmonized System

(GH\$)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements

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The product contains no substances which at their given concentration, are considered to be hazardous to health

Other Information

Not applicable

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

**Mixture** 

**Chemical Family** 

Mixture.

Percent ranges are used where confidential product information is applicable.

Chemical Name	CAS No	Percent Range	HMRIC #
Ammonium chloride	12125-02-9	0.1 - 1%	-
Silver chloride	7783-90-6	<0.1%	_

# 4. FIRST AID MEASURES

#### Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible).

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If symptoms persist, call a physician.

Skin contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. If symptoms persist, call a physician.

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms

persist, call a physician.

Ingestion IF SWALLOWED: Rinse Mouth. If symptoms persist, call a physician.

Self-protection of the first aider

Use personal protective equipment as required. Ensure that medical personnel are aware

of the material(s) involved and take precautions to protect themselves.

Most important symptoms and effects, both acute and delayed

Symptoms See Section 11: TOXICOLOGICAL INFORMATION.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Flammable properties

Substance does not burn.

Specific hazards arising from the chemical

This product will not burn or explode. May react violently with. alkali metals. Strong acids. Strong bases.

Hazardous combustion products

This material will not burn.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

U.S. Notice Only persons properly qualified to respond to an emergency involving hazardous

substances may respond to a spill according to federal regulations (OSHA 29 CFR

1910.120(a)(v)) and per your company's emergency response plan and

guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations

should respond to a spill involving chemicals.

EC Notice Only persons properly qualified to respond to an emergency involving hazardous

substances should respond to a spill involving chemicals. See Section 13, Special

Instructions for disposal assistance.

WHMIS Notice Only persons properly qualified to respond to an emergency involving hazardous

substances should respond to a spill involving chemicals. See Section 13, Special

Instructions for disposal assistance.

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Do not touch or walk through spilled material. Ventilate

affected area. Use personal protective equipment as required.

Environmental precautions

Environmental precautions Avoid release to the environment. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later

disposal.

Methods for cleaning up Neutralize spill if necessary. Soak up with inert absorbent material. Take up mechanically,

placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

Dispose of in accordance with local, state and federal regulations or laws.

Emergency Response Guide Number

Not applicable

# 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

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**Storage Conditions** 

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly

labeled containers.

Flammability class

Not applicable

Incompatible materials

alkali metals. Strong acids. Strong bases.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

# **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ammonium chloride	STEL: 20 mg/m <sup>3</sup>	(vacated) TWA: 10 mg/m³	TWA: 10 mg/m³ fume
0.1 - 1%	TWA: 10 mg/m <sup>3</sup>	(vacated) STEL: 20 mg/m³	STEL: 20 mg/m³ fume

Chemical Name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick OEL	New Foundland & Labrador OEL
Ammonium chloride 0.1 - 1%	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	TWA: 10 mg/m³ STEL: 20 mg/m³	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>
Silver chloride <0.1%	NDF	TWA: 0.01 mg/m <sup>3</sup> STEL: 0.03 mg/m <sup>3</sup>	NDF	NDF	NDF

Chemical Name	Northwest Territories OEL	Nova Scotia OEL	Nunavut OEL	Ontario TWA	Prince Edward
Ammonium chloride	TWA: 10 mg/m <sup>3</sup>	STEL: 20 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	STEL: 20 mg/m <sup>3</sup>
0.1 - 1%	STEL: 20 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	STEL: 20 mg/m <sup>3</sup>	STEL: 20 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>

Chemical Name	Quebec OEL	Saskatchewan OEL	Yukon OEL	
Ammonium chloride	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	STEL: 20 mg/m <sup>3</sup>	
0.1 - 1%	STEL: 20 mg/m <sup>3</sup>	STEL: 20 mg/m³	TWA: 10 mg/m <sup>3</sup>	

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Legend

See section 16 for terms and abbreviations

### Appropriate engineering controls

**Engineering Controls** 

Showers

Eyewash stations Ventilation systems

# Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear protective gloves and protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations** 

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Wash hands thoroughly after handling. Regular cleaning of equipment, work area

and clothing is recommended.

#### **Environmental exposure controls**

Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state

Liquid

Gas Under Pressure

Not classified according to GHS criteria

Appearance

aqueous solution

Color

colorless

Odor

Odorless

Odor threshold

No data available

**Property** 

Values

Remarks • Method

Molecular weight

No data available

рΗ

5.4

Melting point/freezing point

~ 0 °C / 32 °F

Estimation based on theoretical

calculation

Boiling point / boiling range

99 °C / 210 °F

**Evaporation rate** 

1 (water = 1)

Vapor pressure

24.002 mm Hg / 3.2 kPa at 25 °C / 77 °F

Vapor density (air = 1)

0.62

Specific gravity (water = 1 / air = 1)

1.0004

Partition Coefficient (n-octanol/water)

Not applicable

Soil Organic Carbon-Water Partition

Coefficient

Not applicable

Autoignition temperature

No data available

Decomposition temperature

No data available

Dynamic viscosity

1 cP (mPa s) at 20 °C / 68 °F

Kinematic viscosity

1 cSt (mm<sup>2</sup>/s) at 20 °C / 68 °F

### Solubility(ies)

# Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

# Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F
Most Polar Organic Solvents	Soluble	> 1000 mg/L	25 °C / 77 °F

### Other Information

# **Metal Corrosivity**

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Steel Corrosion Rate

0.41 mm/yr / 0.02 in/yr

**Aluminum Corrosion Rate** 

0.05 mm/yr / 0 in/yr

**Bulk density** 

Not applicable

**Explosive properties** 

Not classified according to GHS criteria.

**Explosion data** 

No data available

Upper explosion limit

No data available

Lower explosion limit

No data available

Flammable properties

Not classified as flammable according to GHS criteria.

Flammability Limit in Air

Upper flammability limit:

No data available

Lower flammability limit:

No data available

Flash point

No data available

Method

No information available

**Oxidizing properties** 

Not classified according to GHS criteria.

Reactivity propeties

Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria.

# 10. STABILITY AND REACTIVITY

Reactivity propeties

Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria

Chemical stability

Stable under recommended storage conditions.

Special dangers of the product

None reported

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

**Conditions to avoid** 

Exposure to light. Extreme temperatures. Excessive heat. Freezing conditions. Contact with acid or acid fumes. Incompatibles.

Incompatible materials

alkali metals. Strong acids. Strong bases.

**Hazardous Decomposition Products** 

None known based on information supplied.

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Explosive properties

Not classified according to GHS criteria.

Upper explosion limit

No data available

Lower explosion limit

No data available

Autoignition temperature

No data available

Sensitivity to Static Discharge

None reported

Sensitivity to Mechanical Impact

None reported

# 11. TOXICOLOGICAL INFORMATION

# Information on Likely Routes of Exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
Inhalation	No known effect based on information supplied.
Eye contact	No known effect based on information supplied.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Aggravated Medical Conditions	None known.
Toxicologically synergistic products	None known.
Toxicokinetics, metabolism and distribution	No information available.

# Product Acute Toxicity Data

**Oral Exposure Route** 

No data available

**Dermal Exposure Route** 

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

# **Ingredient Acute Toxicity Data**

**Oral Exposure Route** 

Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ammonium chloride (0.1 - 1%) CAS#: 12125-02-9	Rat LD₅o	1650 mg/kg	None reported	None reported	IUCLID (The International Uniform Chemical Information Database)
Silver chloride (<0.1%) CAS#: 7783-90-6	Mouse LD₅₀	> 10000 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)
Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ammonium chloride	Mouse	1300 mg/kg	None	None reported	IUCLID (The International

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(0.1 - 1%) CAS#: 12125-02-9	LD50		reported		Uniform Chemical Information Database)
Silver chloride (<0.1%) CAS#: 7783-90-6	Guinea pig LD₅₀	> 5000 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)
Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ammonium chloride (0.1 - 1%) CAS#: 12125-02-9	Domestic mammal - Not specified LD⊾₀	1500 mg/kg	None reported	Lungs, Thorax, or Respiration Respiratory stimulation	

**Dermal Exposure Route** 

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

Product Skin Corrosion/Irritation Data

No data available.

# Ingredient Skin Corrosion/Irritation Data

Chemical Name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ammonium chloride (0.1 - 1%) CAS#: 12125-02-9	Existing human experience	Human	None reported	None reported	Mild skin irritant	RTECS (Registry of Toxic Effects of Chemical Substances)

# Product Serious Eye Damage/Eye Irritation Data

No data available.

# Ingredient Eye Damage/Eye Irritation Data

Chemical Name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ammonium chloride (0.1 - 1%) CAS#: 12125-02-9	Standard Draize Test	Rabbit	100 mg	None reported	Corrosive to eyes	RTECS (Registry of Toxic Effects of Chemical Substances)

# Sensitization Information

Product Sensitization Data

Skin Sensitization Exposure Route

No data available.

Respiratory Sensitization Exposure Route

No data available.

# Ingredient Sensitization Data

Skin Sensitization Exposure Route		Toxicological data for ingredients is not indicative of likely harm.
Alexandra 1 M	-	

Chemical Name	Test method	Species	Results	Key literature references and	1
				sources for data	l

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Ammonium chloride (0.1 - 1%) 406: Skin CAS#: 12125-02-9 Sensitization	Guinea pig Not confirmed to be a skin sensitizer	OECD (Organization for Economic Co-operation and Development)
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Respiratory Sensitization Exposure Route

No data available.

**Chronic Toxicity Information** 

Product Repeat Dose Toxicity Data

**Oral Exposure Route** 

No data available.

**Dermal Exposure Route** 

No data available.

Inhalation (Dust/Mist) Exposure Route

No data available.

Inhalation (Vapor) Exposure Route

No data available.

Inhalation (Gas) Exposure Route

No data available.

Ingredient Repeat Dose Toxicity Data

Oral Exposure Route

Toxicological data for ingredients is not indicative of likely harm

01 1 111				Toxicological data for ingredients	is not indicative of likely narm.
Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ammonium chloride (0.1 - 1%) CAS#: 12125-02-9	Rat TD⊾₀	3500 mg/kg	7 days	Nutritional and Gross Metabolic Metabolic acidosis	RTECS (Registry of Toxic Effects of Chemical Substances)
Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ammonium chloride (0.1 - 1%) CAS#: 12125-02-9	Rat TD∟₀	556000 mg/kg	78 weeks	Kidney, Ureter, or Bladder Changes in tubules (including acute renal failure, acute tubular necrosis)	RTECS (Registry of Toxic Effects of Chemical

**Dermal Exposure Route** 

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

CAS No	ACGIH	IARC	NTP	OSHA
12125-02-9	¥1.			JOHA
7783-90-6			2	
	12125-02-9	12125-02-9	12125-02-9	12125-02-9

### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of Labor)	X - Present

**Product Carcinogenicity Data** 

No data available

**Oral Exposure Route** 

No data available

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**Dermal Exposure Route** 

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

Ingredient Carcinogenicity Data

**Oral Exposure Route** 

No data available

**Dermal Exposure Route** 

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

Product Germ Cell Mutagenicity invitro Data

No data available.

# Ingredient Germ Cell Mutagenicity invitro Data

Toxicological data for ingredients is not indicative of likely harm.

Chemical Name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Ammonium chloride (0.1 - 1%) CAS#: 12125-02-9	Cytogenetic analysis	Hamster fibroblast	400 mg/L	None reported	Positive test result for	

**Oral Exposure Route** 

No data available

**Dermal Exposure Route** 

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

Ingredient Germ Cell Mutagenicity invivo Data

**Oral Exposure Route** 

No data available

**Dermal Exposure Route** 

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

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Oral Exposure Route

No data available

Dermal Exposure Route

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

No data available

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Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

**Ingredient Reproductive Toxicity Data** 

**Oral Exposure Route** 

No data available

**Dermal Exposure Route** 

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Based on the classification principles, not classified as hazardous to the environment.

Product Ecological Data

Aquatic toxicity

Fish

No data available

Crustacea

No data available

Algae

No data available

Terrestrial toxicity

Soil

No data available

**Vertebrates** 

No data available

Invertebrates

No data available

# **Ingredient Ecological Data**

# **Aquatic toxicity**

Fish

Chemical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Ammonium chloride (0.1 - 1%) CAS#: 12125-02-9	96 hours	Oncorhynchus mykiss	LĈ50	3.98 mg/L	IUCLID (The International Uniform Chemical Information Database)
Chemical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Ammonium chloride 96 hours Poecilia reticulata (0.1 - 1%) CAS#: 12125-02-9		Poecilia reticulata	LC50	7.2 mg/L	IUCLID (The International Uniform Chemical Information Database)
Silver chloride (<0.1%) CAS#: 7783-90-6	96 hours	Pimephales promelas	LC50	1.93 mg/L	Vendor SDS

Crustacea

	Chemical Name	Exposure	Species	Endpoint	Reported	Key literature references and
V		time		type	dose	sources for data

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Ammonium ch (0.1 - 1%) CAS#: 12125-	12 ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	Daphnia magna	LC50	161 mg/L	IUCLID (The International Uniform Chemical Information
G7 10 12 12 0	02.0				Database)

Algae

No data available

Terrestrial toxicity

Soil

No data available

Vertebrates

No data available

Invertebrates

No data available

### Other Information

Canadian Environmenta Environmentally Hazard	I Protection Act (CEP ous Substances Cate	A) - Domestic Sub gorizations	stances List (DSL)	):	
Chemical Name	CAS No	Category	Persistent	Bioaccumulation	Inherently Toxic to Aquatic Organisms
Ammonium chloride	12125-02-9	÷			
Silver chloride	7783-90-6		12-1		

# Persistence and degradability

None known.

# Product Biodegradability Data

If available, see ingredient data below.

# Ingredient Biodegradability Data

Test data reported below

### **Bioaccumulation**

None known.

**Product Bioaccumulation Data** 

Test data reported below.

Ingredient Bioaccumulation Data

No data available

Additional information

Product Information

Partition Coefficient (n-octanol/water)

Not applicable

Ingredient Information

#### Mobility

Mobility in soil: High mobility. If available, see ingredient data below.

**Product Information** 

Soil Organic Carbon-Water Partition Coefficient

Not applicable

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Ingredient Information

No data available

# **Additional information**

#### Water solubility

#### **Product Information**

Water solubility classification	Water solubility	Water Solubility Temperature	
Soluble	> 1000 mg/L	25 °C / 77 °F	

#### Ingredient Information

Chemical Name	Water solubility classification	Water solubility	Water solubility temperature °C	Water solubility temperature °F
Ammonium chloride CAS#: 12125-02-9	Completely soluble	297000 mg/L	0 °C	32 °F
Silver chloride CAS#: 7783-90-6	Insoluble	< 0.1 mg/L	25 °C	77 °F

# Other adverse effects

No information available.

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national, and local laws and

regulations.

Contaminated packaging

Working in a well-ventilated area. Rinse three times with an appropriate solvent. Collect rinsate and dispose of according to local, state, or federal regulations. Dispose of empty container as normal trash. In the US, rinsate from empty containers is classified as hazardous waste and should be disposed of at an E.P.A. approved facility. Rinsate from empty containers may contain sufficient product to require disposal as hazardous waste in countries other than the US. Improper disposal or reuse of this container may be dangerous and illegal. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Special instructions for disposal

Dispose of material in an E.P.A. approved hazardous waste facility. Check with local municipal and state authorities and waste contractors for pertinent local information regarding the proper disposal of chemicals.

# 14. TRANSPORT INFORMATION

DOT

Not regulated

TDG

Not regulated

IATA

Not regulated

IMDG

Not regulated

Note:

No special precautions necessary.

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#### Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

# 15. REGULATORY INFORMATION

National Inventories

TSCA Complies DSL/NDSL Complies

TSCA- United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL- Canadian Domestic Substances List/Non-Domestic Substances List

International Inventories

**EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECL** Complies **PICCS** Complies TCSI Complies **AICS** Complies **NZIoC** Complies

EINECS/ELINCS- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS- Japan Existing and New Chemical Substances

IECSC- China Inventory of Existing Chemical Substances

KECL- Korean Existing and Evaluated Chemical Substances

PICCS- Philippines Inventory of Chemicals and Chemical Substances

TCSI- Taiwan Chemical Substances Inventory

AICS- Australian Inventory of Chemical Substances

NZIoC- New Zealand Inventory of Chemicals

# US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %		
Ammonium chloride (CAS #: 12125-02-9)	1.0		
Silver chloride (CAS #: 7783-90-6)	1,0		

### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium chloride 12125-02-9	5000 lb	*	9 <b>5</b>	X
Silver chloride		X	*	2

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7783-90-6	

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonium chloride 12125-02-9	5000 lb	¥	RQ 5000 lb final RQ
12125-02-9			RQ 2270 kg final RQ

# US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ammonium chloride 12125-02-9	X	X	×
Silver chloride 7783-90-6	X	<del>-</del>	Х

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

#### NFPA and HMIS Classifications

NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and Chemical Properties -
HMIS	Health hazards - 0	Flammability - 0	Physical hazards - 0	Personal protection - X - See section 8 for more information

# Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH

Immediately Dangerous to Life or Health

**ACGIH** 

ACGIH (American Conference of Governmental Industrial Hygienists)

Vacated

NDF no data

# Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average)

STEL STEL (Short Term Exposure Limit)

MAC Maximum Allowable Concentration

Ceiling Limit Value

X Listed

These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that

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some reference state regulations of these "liberated" exposure limits in their state

regulations.

SKN\* RSP+ Skin designation

Respiratory sensitization

SKN+ \*\* R

Skin sensitization Hazard Designation Reproductive toxicant

M

Carcinogen mutagen

Prepared By

Hach Product Compliance Department

**Issue Date** 

14-Jun-2016

**Revision Date** 

19-Sep-2016

**Revision Note** 

None

# **Disclaimer**

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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**End of Safety Data Sheet**